

Title (en)  
SINUSOIDAL CRUSH CAN ASSEMBLY

Title (de)  
SINUSFÖRMIGE DOSENZERKLEINERUNGSANORDNUNG

Title (fr)  
ASSEMBLAGE DE BOÎTE D'ÉCRASEMENT SINUSOÏDALE

Publication  
**EP 2804787 B1 20170301 (EN)**

Application  
**EP 13738737 A 20130110**

Priority  
• US 201261587820 P 20120118  
• CA 2013000017 W 20130110

Abstract (en)  
[origin: WO2013106905A1] A sinusoidal crush can assembly for a bumper assembly includes a top wall, a bottom wall spaced from the top wall, and a pair of spaced side walls that extend between the top wall and the bottom wall to present a generally tubular and trapezoidal shape. The crush can assembly further includes a sinusoidal wave portion disposed along each of the walls from the rear end towards the front end. Each of the wave portions include peaks and troughs that define a sinusoidal wave depth, and the sinusoidal wave depth reduces gradually from the front end toward the rear end. Each of the peaks and the troughs are aligned with one another. The crush can assembly further includes a wave portion separator that extends angularly between adjacent ones of the wave portions to transition between each of the sinusoidal wave portions that are disposed along each of the walls.

IPC 8 full level  
**B60R 19/34** (2006.01); **B60R 19/18** (2006.01)

CPC (source: EP US)  
**B60R 19/18** (2013.01 - US); **B60R 19/34** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2013106905 A1 20130725**; CA 2860984 A1 20130725; CN 104066625 A 20140924; CN 104066625 B 20161214; EP 2804787 A1 20141126; EP 2804787 A4 20150902; EP 2804787 B1 20170301; JP 2015505286 A 20150219; JP 6023820 B2 20161109; KR 20140116412 A 20141002; MX 2014008769 A 20140827; MX 351217 B 20171005; RU 2015113472 A 20161110; US 2014346790 A1 20141127; US 9233658 B2 20160112

DOCDB simple family (application)  
**CA 2013000017 W 20130110**; CA 2860984 A 20130110; CN 201380006095 A 20130110; EP 13738737 A 20130110; JP 2014552454 A 20130110; KR 20147019586 A 20130110; MX 2014008769 A 20130110; RU 2015113472 A 20130110; US 201314372356 A 20130110